



产品名称: 12V 60kg RS485串行总线舵机
Product Name: 12V 60kg.cm Serial Control RS485 Servo

产品型号 Model No. SM60CL

1. 使用环境条件 Apply Environmental Condition

No.	Item	Specification
1-1	存储温度 Storage Temperature Range	-30℃~80℃
1-2	运行温度 Operating Temperature Range	-20℃~80℃

2. 测试环境 Standard Test Environment

No.	Item	Specification
2-1	温度 Temperature range	25℃ ±5℃
2-2	湿度 Humidity range	65%±10%

3. 机械特性 Mechanical Specification

No.	Item	Specification
3-1	尺寸 Size	A: 62mm B: 34mm C: 40mm
3-2	重量 Weight	180g
3-3	齿轮类型 Gear type	Steel Gear(Gear Ratio 253:1)
3-6	机构极限角度 Limit angle	No Limiter
3-7	轴承 Bearing	2 Ball bearings
3-8	出力轴 Horn gear spline	15T(OD7.6mm)
3-9	摆臂 Horn type	Aluminium
3-10	外壳 Case	Aluminium
3-11	舵机线 Connector wire	150mm ±5 mm(5264-4P)
3-12	马达 Motor	coreless motor
3-13	防水性能 Splash water resistance	NO

4. 电气特性 Electrical Specification (Function of the Performance)

No.	工作电压 Operating Voltage Range	12V	
4-1*	静态电流 Idle current(at stopped)	40mA	
4-2*	空载速度 No load speed	0.286sec/60degree 35RPM	
4-3*	空载电流 Runnig current(at no load)	200 mA	
4-4	堵转扭矩 Peak stall torque	60kg.cm	
		834.7oz.in	
4-5	堵转电流 Stall current	2600 mA	
4-6	额定负载 Rated Load	20kg.cm≤	
4-7	额定电流 Rated current	800mA≤	
4-8	KM常数		16kg.cm/A
4-9	电机内阻 Terminal resistance		3.13Ω

Note: "*"definition is average value when the servo runing with no load



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5. 控制特性 Control Specification:

No.	Item	Specification
5-1	控制信号 Command signal	Bus Packet Communication RS485
5-2	协议类型 Protocol Type	Half duplex Asynchronous Serial Communication
5-3	ID范围 ID range	0-253
5-4	通读速率 Communication Speed	38400bps ~ 1 Mbps
5-5	旋转角度 Running degree	360° (when 0~4096)
5-6	反馈 Feedback	Load, Position, Speed, Input Voltage, Current, Temperature
5-7	位置传感器分辨率 Position Sensor (Resolution)	12Bits Magnetic Coding (360° /4096)

6. 外形图 The Drawings

